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Substitute Specification

PIEZO-ELECTRIC DRIVE AND ITS USE FOR DRIVING HEAVY LOADS

This is a Continuation-in-Part application of international application PCT/DE02/01270 filed 04/08/02 and claiming the priority of German application 101 17 465.9 filed 04/06/01.

BACKGROUND OF THE INVENTION

The invention relates to a piezo electric drive, particularly for relatively high drive forces or, respectively, drive power.

Such a piezo-electric drive may be used as a rotary drive wherein a relative rotational movement between a reference part and a drive part is generated as well as a linear drive wherein a linear or quasi-linear displacement movement between a reference part and an output part is generated.

The main field of use of the invention is its use as a control drive wherein high operating forces must be generated for example for the actuation of vehicle brakes.

The basic concept of such a piezo electric drive is disclosed, for example, in DE Gebrauchsmuster 94 19 802.

The basic design features of such a piezo electric actuator comprises a number of piezo packets in the form of stacks of piezo elements, which are arranged between a reference part and a drive part in such a way that the height of the stack of

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